

AMENDMENTS TO THE CLAIMS

CLAIM 1 (CURRENTLY AMENDED): A bicycle disk brake rotor apparatus comprising:  
a generally circular first rotor member with a first fixing component structured to mount the first rotor member to a hub mounting member;  
a generally circular first second rotor member with a first ~~second~~ fixing component structured to mount the first second rotor member to the hub mounting member;  
wherein the first rotor member is attached to a side of the first second rotor member;  
wherein at least a majority of the disk brake rotor apparatus between outermost lateral side surfaces thereof is substantially free of voids; ~~and~~  
wherein the first second rotor member is formed of a material having greater braking wear resistance than the first rotor member; and  
wherein the first second rotor member is pressure welded to the first rotor member.

CLAIM 2 (CURRENTLY AMENDED): The apparatus according to claim 1 further comprising:  
a generally circular second second rotor member with a second ~~second~~ fixing component structured to mount the second second rotor member to the hub mounting member;  
wherein the second second rotor member is formed of a material having greater braking wear resistance than the first rotor member; and  
wherein the first rotor member is ~~attached~~ pressure welded to and is disposed between the first second rotor member and the second second rotor member.

CLAIM 3 (ORIGINAL): The apparatus according to claim 2 wherein the first rotor member has greater thermal conductivity than the first second rotor member and the second second rotor member.

CLAIM 4 (ORIGINAL): The apparatus according to claim 2 wherein the first rotor member comprises aluminum, and wherein the first second rotor member and the second second rotor member each comprises stainless steel.

CLAIM 5 (ORIGINAL): The apparatus according to claim 4 wherein each of the first second rotor member and the second second rotor member is formed with a hardening process.

CLAIM 6 (CANCELED).

CLAIM 7 (CURRENTLY AMENDED): The apparatus according to claim 6 1 wherein the first second rotor member and the second second rotor member are hot rolled to the first rotor member.

CLAIM 8 (CURRENTLY AMENDED): The apparatus according to claim 6 1 wherein the first second rotor member and the second second rotor member are forge welded to the first rotor member.

CLAIM 9 (ORIGINAL): The apparatus according to claim 2 wherein the first rotor member has a thickness of from approximately 0.5 millimeters to approximately 1.5 millimeters, and wherein the first second rotor member and the second second rotor member each has a thickness of from approximately 0.2 millimeters to approximately 0.8 millimeters.

CLAIM 10 (CURRENTLY AMENDED): The apparatus according to claim 2 further comprising:

- a plurality of the first fixing components;
- a plurality of the first ~~second~~ fixing components on the first second rotor member;
- a plurality of the second ~~second~~ fixing components on the second second rotor member;
- wherein each of the plurality of first fixing components on the first rotor member aligns with a corresponding one of the plurality of first ~~second~~ fixing components on the first second rotor member; and

- wherein each of the plurality of first fixing components on the first rotor member aligns with a corresponding one of the plurality of second fixing components on the second second rotor member.

CLAIM 11 (CURRENTLY AMENDED): The apparatus according to claim 10 wherein the plurality of first fixing components on the first rotor member, the plurality of first ~~second~~ fixing

components on the first second rotor member, and the plurality of second ~~second~~ fixing components on the second second rotor member are circumferentially disposed ~~along their respective first rotor member, first second rotor member and second second rotor member.~~

CLAIM 12 (CURRENTLY AMENDED): A bicycle disk brake rotor apparatus comprising:  
a generally circular first rotor member with a plurality of circumferentially disposed first  
fixing components structured to mount the first rotor member to a hub mounting member;

a generally circular first second rotor member with a plurality of circumferentially disposed  
first fixing components structured to mount the first second rotor member to the hub mounting  
member;

a generally circular second second rotor member with a plurality of circumferentially  
disposed second fixing components structured to mount the second second rotor member to the hub  
mounting member;

wherein the first rotor member is nonremovably bonded to and is disposed between the first  
second rotor member and the second second rotor member;

wherein each of the plurality of first fixing components on the first rotor member aligns with  
a corresponding one of the plurality of first fixing components on the first second rotor member;

wherein each of the plurality of first fixing components on the first rotor member aligns with  
a corresponding one of the plurality of second fixing components on the second second rotor  
member;

wherein at least a majority of the disk brake rotor apparatus between outermost lateral side  
surfaces thereof is substantially free of voids;

wherein the first second rotor member is formed of a material having greater braking wear  
resistance than the first rotor member;

wherein the second second rotor member is formed of a material having greater braking wear  
resistance than the first rotor member; and

~~The apparatus according to claim 11~~ wherein the first rotor member, the first second rotor member and the second second rotor member each comprises a ring-shaped member, and wherein the plurality of first fixing components on the first rotor member, the plurality of first ~~second~~ fixing components on the first second rotor member, and the plurality of second ~~second~~ fixing components

on the second second rotor member extend radially inwardly from ~~an~~ their respective inner peripheral ~~surface of their respective first rotor member, first second rotor member and second second rotor member~~ surfaces.

CLAIM 13 (CURRENTLY AMENDED): The apparatus according to claim 12 wherein each of the plurality of first fixing components on the first rotor member, each of the plurality of first ~~second~~ fixing components on the first second rotor member, and each of the plurality of second ~~second~~ fixing components on the second second rotor member is structured to receive a fastener therethrough.

CLAIM 14 (CURRENTLY AMENDED): The apparatus according to claim 13 further comprising the fastener for each of the plurality of first fixing components on the first rotor member, the plurality of first ~~second~~ fixing components on the first second rotor member, and the plurality of second ~~second~~ fixing components on the second second rotor member, wherein at least one fastener comprises aluminum.

CLAIM 15 (CURRENTLY AMENDED): The apparatus according to claim 2 further comprising the hub mounting member structured to mount to the first fixing component on the first rotor member, to the first ~~second~~ fixing component on the first second rotor member and to the second ~~second~~ fixing component on the second second rotor member.

CLAIM 16 (CURRENTLY AMENDED): The apparatus according to claim 15 wherein the hub mounting member comprises:

- a centrally disposed hub attachment component structured to be mounted to the hub; and
- a rotor attachment component extending radially outwardly from the hub attachment component and structured to mount to the first fixing component on the first rotor member, to the first ~~second~~ fixing component on the first second rotor member and to the second ~~second~~ fixing component on the second second rotor member.

CLAIM 17 (ORIGINAL): The apparatus according to claim 16 wherein the hub mounting member has greater thermal conductivity than the first second rotor member and the second second rotor member.

CLAIM 18 (CURRENTLY AMENDED): The apparatus according to claim 17 further comprising:

a plurality of the first fixing components extending circumferentially around the first rotor member;

a plurality of the first ~~second~~ fixing components extending circumferentially around the first second rotor member; and

a plurality of the second ~~second~~ fixing components extending circumferentially around the second second rotor member;

wherein each of the plurality of first fixing components on the first rotor member aligns with corresponding ones of the plurality of first ~~second~~ fixing components on the first second rotor member and the plurality of second fixing components on the second second rotor member.

CLAIM 19 (CURRENTLY AMENDED): The apparatus according to claim 18 wherein the first rotor member, the first second rotor member and the second second rotor member each comprises a ring-shaped member, and wherein the plurality of first fixing components on the first rotor member, the plurality of first ~~second~~ fixing components on the first second rotor member, and the plurality of second ~~second~~ fixing components on the second second rotor member extend radially inwardly from an inner peripheral surface of their respective first rotor member, first second rotor member and second second rotor member.

CLAIM 20 (CURRENTLY AMENDED): The apparatus according to claim 19 wherein the rotor attachment component comprises a plurality of arm components extending radially outwardly from the hub attachment component, wherein each arm component is fixed to a corresponding first fixing component on the first rotor member, first ~~second~~ fixing component on the first second rotor member and second ~~second~~ fixing component on the second second rotor member.

CLAIM 21 (CURRENTLY AMENDED): The apparatus according to claim 20 further comprising a fastener extending through each associated arm component, first fixing component on the first rotor member, first ~~second~~ fixing component on the first second rotor member and second ~~second~~ fixing component on the second second rotor member.

CLAIM 22 (CURRENTLY AMENDED): A bicycle disk brake rotor apparatus comprising:  
a generally circular first rotor member with a first fixing component structured to mount the first rotor member to a hub mounting member;

a generally circular first second rotor member with a first ~~second~~ fixing component structured to mount the first second rotor member to the hub mounting member;

wherein the first rotor member is nonremovably attached to a side of the first second rotor member;

wherein substantially all of the disk brake rotor apparatus between outermost lateral side surfaces thereof is substantially free of voids; and

wherein the first second rotor member is formed of a material having greater braking wear resistance than the first rotor member.